

Application No.: 10/705,321
Docket No.: UC0304USNA

APR 04 2008

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Remarks

The following remarks are responsive to the Examiner's rejection in the Final Office Action dated February 4, 2008.

Status of the claims

The pending claims are 1-8, and 10-13. Claims 1 and 11 are the independent claims in the application; the remaining claims are directly or independently dependent on those two claims. Claims 1 and 11 are amended to recite that the first liquid composition solvates the first portion of the organic layer, allowing first guest material to migrate into the first portion of the organic layer while a second portion of the organic layer is substantially free of the guest material. Support for this can be found throughout the specification, and particularly at page 21, lines 18-30, and page 23, line 28 through page 24, line 9. No new matter is introduced by these amendments.

Specification

The specification is amended on page 43 to provide the abstract on a separate page, as required in the office action. Applicants respectfully submit that the abstract is now in proper form and the objection should be withdrawn.

Claim Rejection -- 35 U.S.C. § 103

Claims 1-8 and 10-13 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 6,048,573 to Tang et al., (hereinafter "Tang") in combination with Applicants background section at pages 1-4 of the specification. Applicants respectfully traverse this rejection, or in the alternative, submit that the rejection is moot, in light of the claim amendments and the following remarks.

Tang teaches a process in which a dopant is uniformly diffused throughout a host layer, col. 2, lines 12-16. The intent of "uniform" dispersion of the dopant is found throughout Tang, in particular, col. 2, line 66 through col. 3, line 3, col. 3, lines 13-16 and lines 62-65, col. 4, lines 1-4 and col. 6, lines 47-53, in addition to Fig. 2, 3C, 4B, 5C and 6C. Dopant layer 313 contains only a dye within a host material, col. 6, lines 25-32, not the liquid composition of the presently claimed invention. The diffusion of the dopant into the host material is achieved via a fluid vapor treatment process requiring additional equipment., col. 4, lines 54-60.

There is no teaching or suggestion in Tang of applying a dopant to only a portion of an organic layer, and restricting migration into non-treated portions of the organic layer. Tang presents a fluid vapor treatment to produce homogeneous distribution of the dopant, not the

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selective distribution of guest material as in the presently claimed invention. Vapor phase processes, such as Tang's, are not capable of a selective distribution of guest material as the vapor phase driving potential is uniform in the volume of the host material.. By contrast, the solvation and attendant increase in viscosity of the organic layer in the presently claimed invention restricts migration of the guest material in a lateral dimension within the organic layer. This capability to selectively apply guest material to the host material is simply outside the capability of the vapor phase process presented in Tang.

Applicants' background section on pages 1-4 of the present specification are descriptive of non-selective ink dispersion methods, as exemplified by Tang. None of these processes, individually or collectively, is the same as or suggestive of Applicants' claimed subject matter. Applicants' methodology permits a selective insertion of guest material into an organic layer to provide improved performance in OLED devices.

Based on the teaching of Tang in combination with the background section of Applicants' specification, one of ordinary skill in the art would not know to convert a portion of an organic layer to a substantially liquid state in order for a guest material to migrate therein, nor would the advantages of doing so be apparent. Thus, Applicants respectfully submit that none of the claims is obvious over Tang in view of Applicants' discussion at pages 1-4.


For the reasons given above, Applicants respectfully submit that this rejection has been overcome and request that the rejection be withdrawn.

Conclusion

For all of the foregoing reasons, Applicants respectfully submit that the rejections have been rendered moot or overcome by the foregoing amendments and remarks, and that the pending claims are in condition for allowance. A notice of allowance is earnestly solicited.

Should there be any questions about the content of this paper or the status of the application, the Examiner is invited to call the undersigned at the telephone number listed below.

Respectfully submitted,


John H. Lamming
Attorney for Applicants
Registration No.: 34,857
Telephone: (302) 992-5877
Facsimile: (302) 892-1026

Dated: April 4, 2008

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Patent

In the United States Patent and Trademark Office

In the Application of:
Charles Douglas MacPherson et al.

Case No.: **UC0304USNA**

Application No.: **10/705,321**

Confirmation No.: **4468**

Group Art Unit: **1762**

Examiner:
Brian K. Talbot

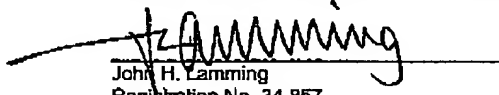
Filed: **11-10-2003**

For: **Organic Material With a Region Including a Guest Material and Organic Electronic Devices Incorporating the Same**

CERTIFICATE OF FACSIMILE TRANSMISSION

DATE: April 4, 2008

I hereby certify that this paper is being facsimile transmitted to the Patent and Trademark Office to facsimile number **571-273-8300** on the date listed above.


John H. Lamming
Registration No. 34,857

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Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

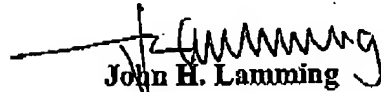
Information Disclosure Statement
37 C.F.R. § 1.97, § 1.98

In compliance with 37 C.F.R. §§1.97 and 1.98, Applicants bring to the attention of the U.S. Patent and Trademark Office the information listed on the enclosed PTO/SB/08A and PTO/SB/08B forms (both modified). Consideration of the information is requested under 37 C.F.R. § 1.56 and this information is submitted in accord with the provisions of §1.97(b): within three months of the filing date of a national application and before the mailing of a first Office Action on the merits.

Some information disclosed on the enclosed PTO/SB/08A and PT/SB/08B was also cited in the Written Opinion of the International Searching Authority of the PCT counterpart to application 10/705,321, PCT/US2004/037598 published as WO 2005/048372 A1. A copy of the Written Opinion is enclosed.

Should any fee be required, please charge the fee to Deposit Account No. 04-1928 (E. I. du Pont de Nemours and Company).

Respectfully submitted,


John H. Launing
Attorney for Applicants
Registration No.: 34,857
Telephone: 302-992-5877
Facsimile: 302-892-1026

Dated: April 4, 2008